

1-4

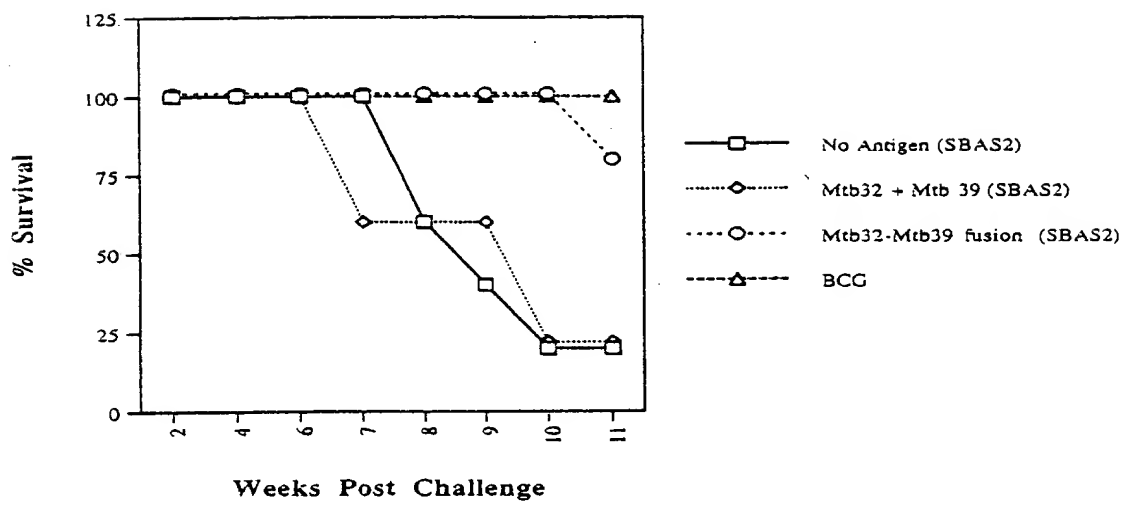
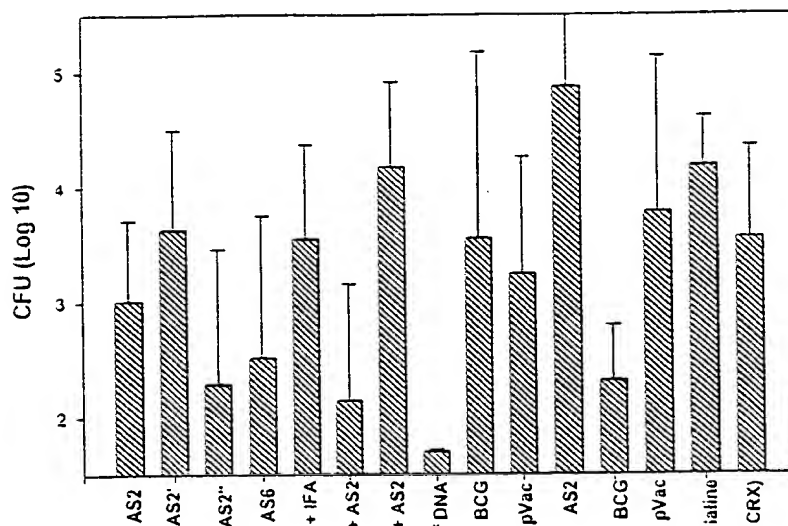


Figure 1

900290 9626560

Fig. 2A

COR9903 (MTB72f + Adjuvant)
SPLEEN



COR9903 (MTB72f + Adjuvant)
Lung

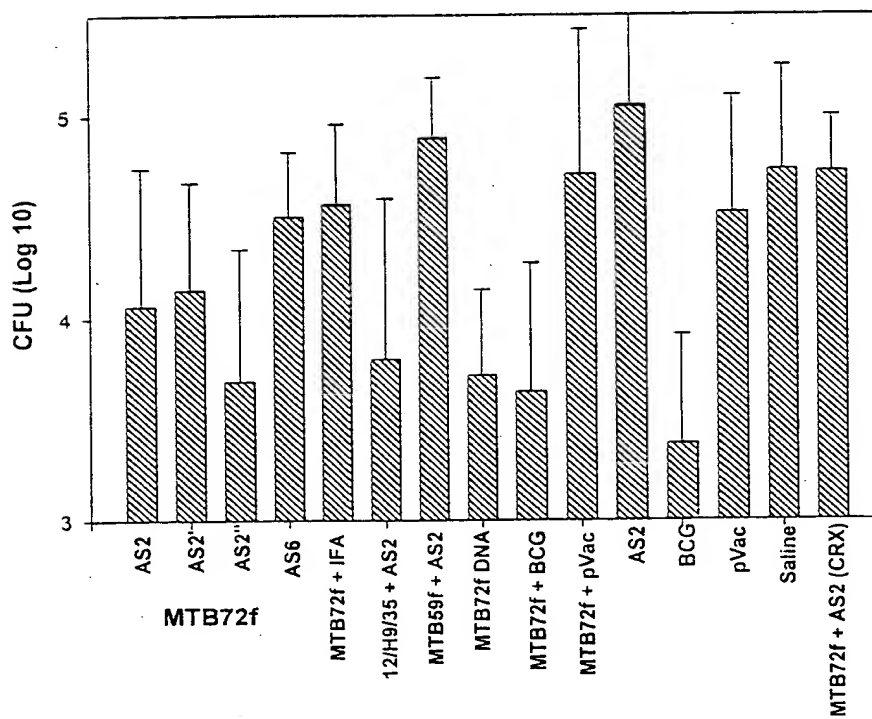
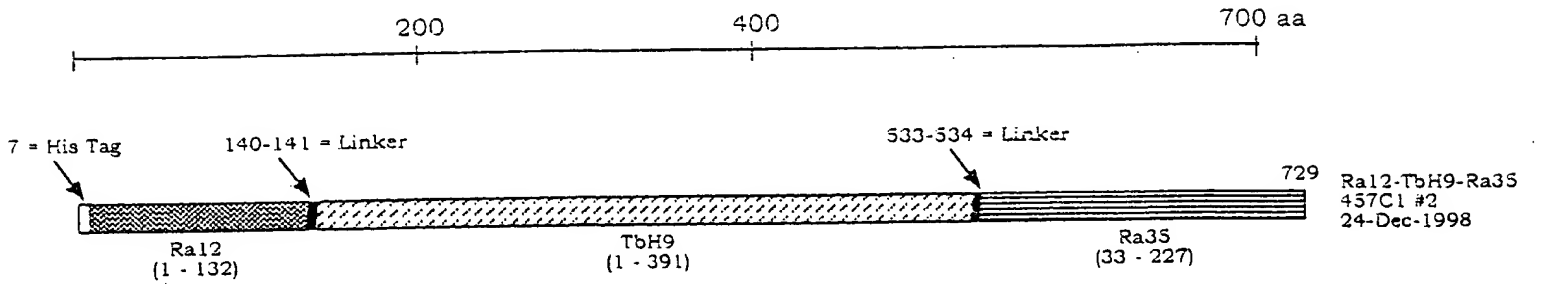


Figure 2

Ra12-TbH9-Ra35
(MTB72f)



000290" 96226540

1956

Ra12-TbH9-Ra35
457C1 E1
24-Dec-1998

Ra35 N-terminus DNA

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gccccgcggg ccttgctgca ggaccgggttc gccgacttcc ccgcgctgcc cctcgaccgg 60
tcgcgatggg tcgcccgaagt ggggccacag gtggtcaaca tcaacaccaa actggggtac 120
aacaacgcgg tgggcgcggg gaccggcatc gtcctcgatc ccaacgggtg cgtgctgacc 180
aacaaccacg tgatcgcggg cgccaccgac atcaatgcgt tcagcgctcg ctccggccaa 240
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gtggtcgcgc tcggccaaac cgtgcaggcg tcggattcgc tgaccgggtg cgaagagaca 480
ttgaacgggt tgatccagtt cgatgccgcg atccagcccg gtgattcggt cgggcccgtc 540
gtcaacggcc taggacaggt ggtcgggtatg aacacggcgg cgtcctag 588

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Ra35 N-terminus amino acid sequence

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Ala Pro Pro Ala Leu Ser Gln Asp Arg Phe Ala Asp Phe Pro Ala Leu
      5                      10                      15
Pro Leu Asp Pro Ser Ala Met Val Ala Gln Val Gly Pro Gln Val Val
      20                      25                      30
Asn Ile Asn Thr Lys Leu Gly Tyr Asn Asn Ala Val Gly Ala Gly Thr
      35                      40                      45
Gly Ile Val Ile Asp Pro Asn Gly Val Val Leu Thr Asn Asn His Val
      50                      55                      60
Ile Ala Gly Ala Thr Asp Ile Asn Ala Phe Ser Val Gly Ser Gly Gln
      65                      70                      75                      80
Thr Tyr Gly Val Asp Val Val Gly Tyr Asp Arg Thr Gln Asp Val Ala
      85                      90                      95
Val Leu Gln Leu Arg Gly Ala Gly Gly Leu Pro Ser Ala Ala Ile Gly
      100                     105                     110
Gly Gly Val Ala Val Gly Glu Pro Val Val Ala Met Gly Asn Ser Gly
      115                     120                     125
Gly Gln Gly Gly Thr Pro Arg Ala Val Pro Gly Arg Val Val Ala Leu
      130                     135                     140
Gly Gln Thr Val Gln Ala Ser Asp Ser Leu Thr Gly Ala Glu Glu Thr
      145                     150                     155                     160
Leu Asn Gly Leu Ile Gln Phe Asp Ala Ala Ile Gln Pro Gly Asp Ser
      165                     170                     175
Gly Gly Pro Val Val Asn Gly Leu Gly Gln Val Val Gly Met Asn Thr
      180                     185                     190
Ala Ala Ser
      195

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Figure 4